

Figure 1

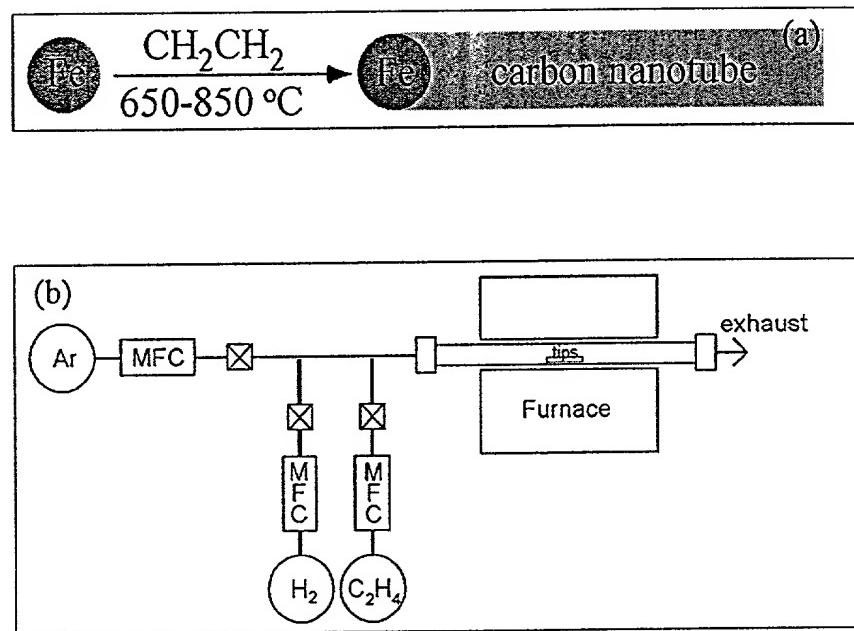


FIG. 2a, b

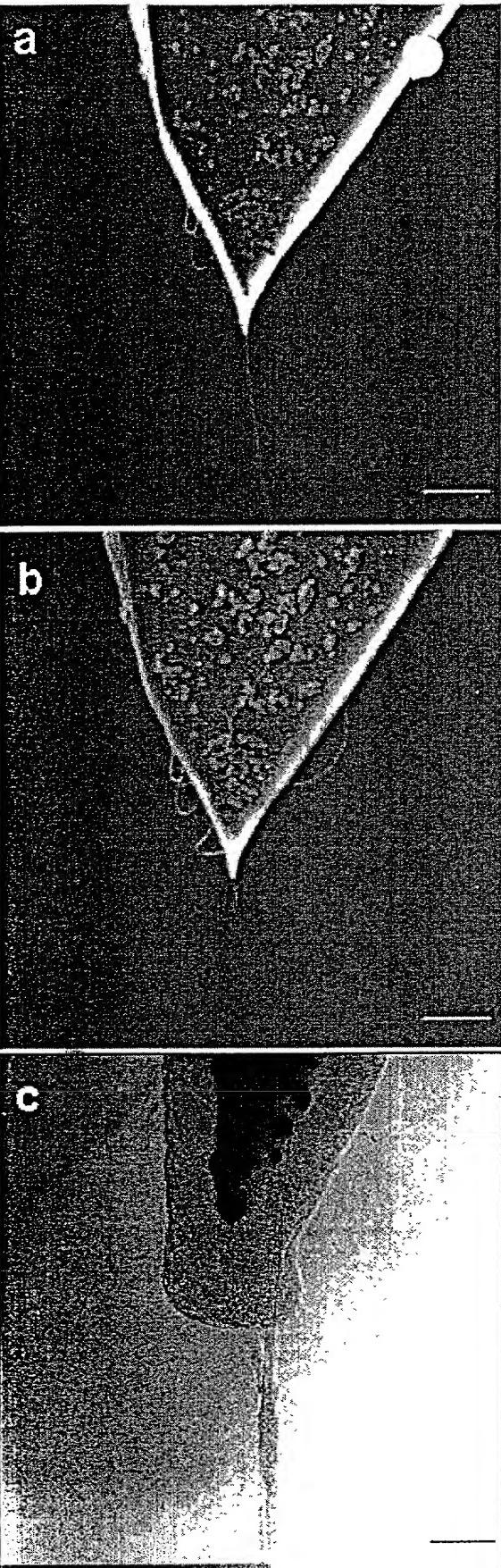
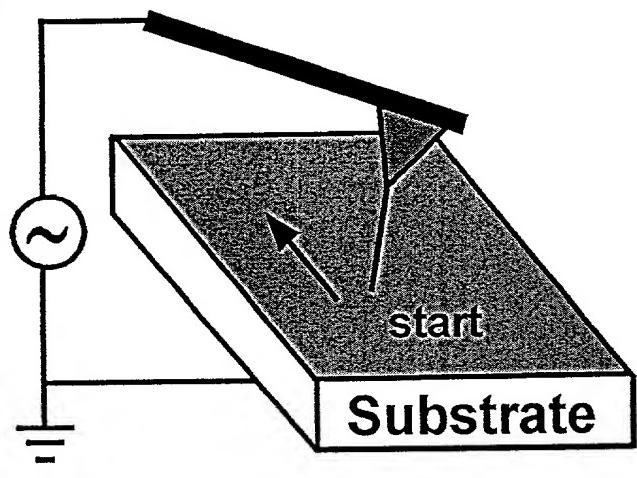
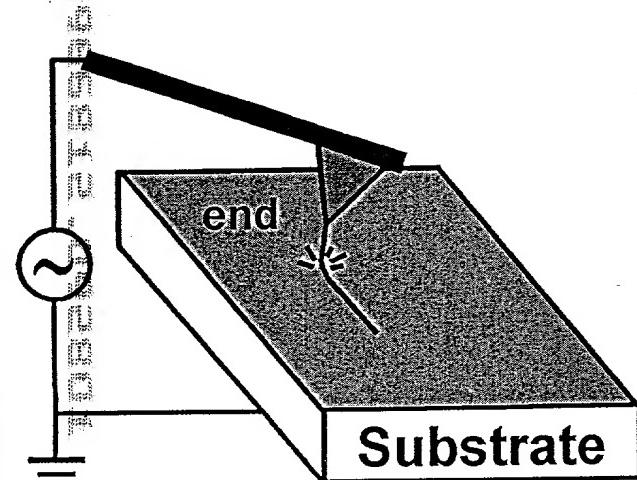


Figure 3

(a)



(b)



(c)

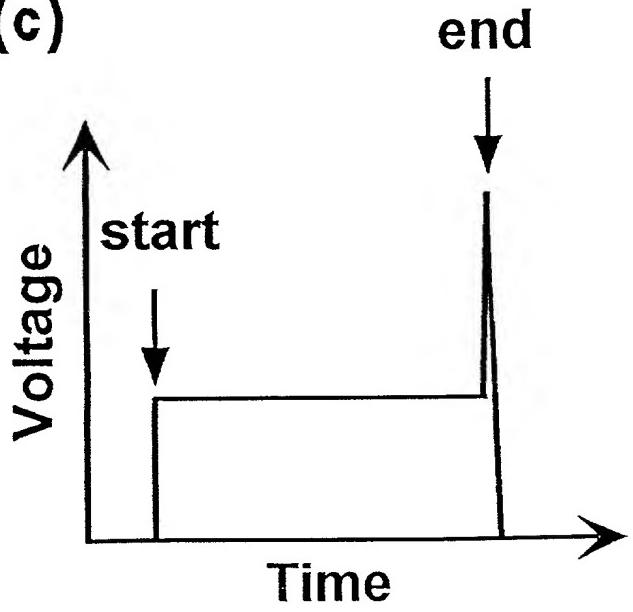
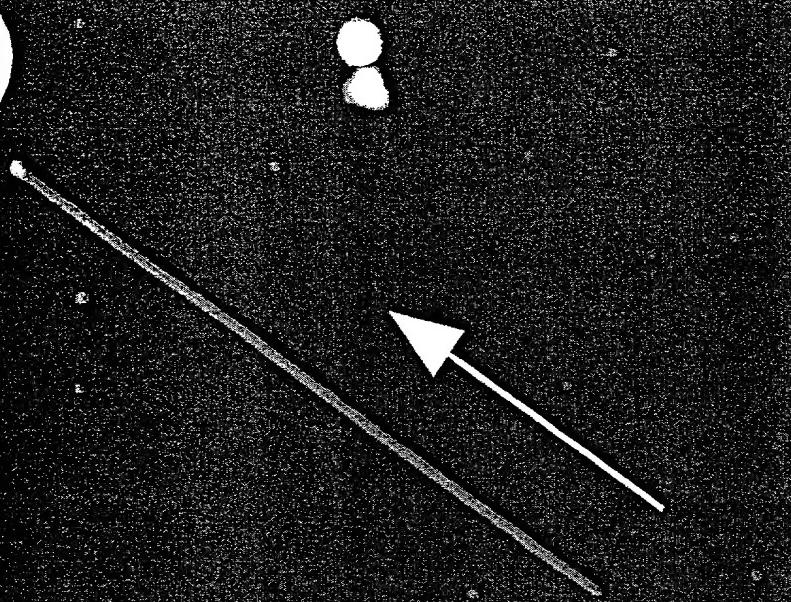
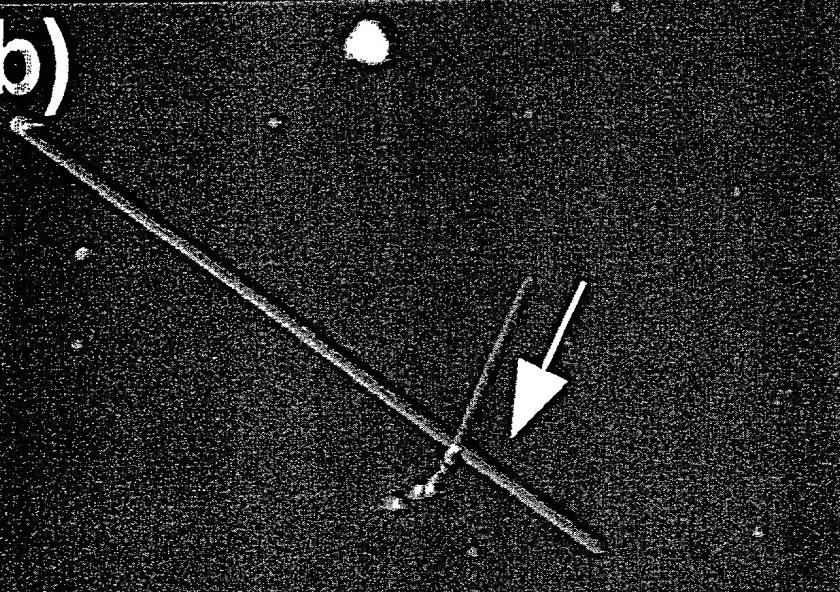


Figure 4

(a)



(b)



(c)

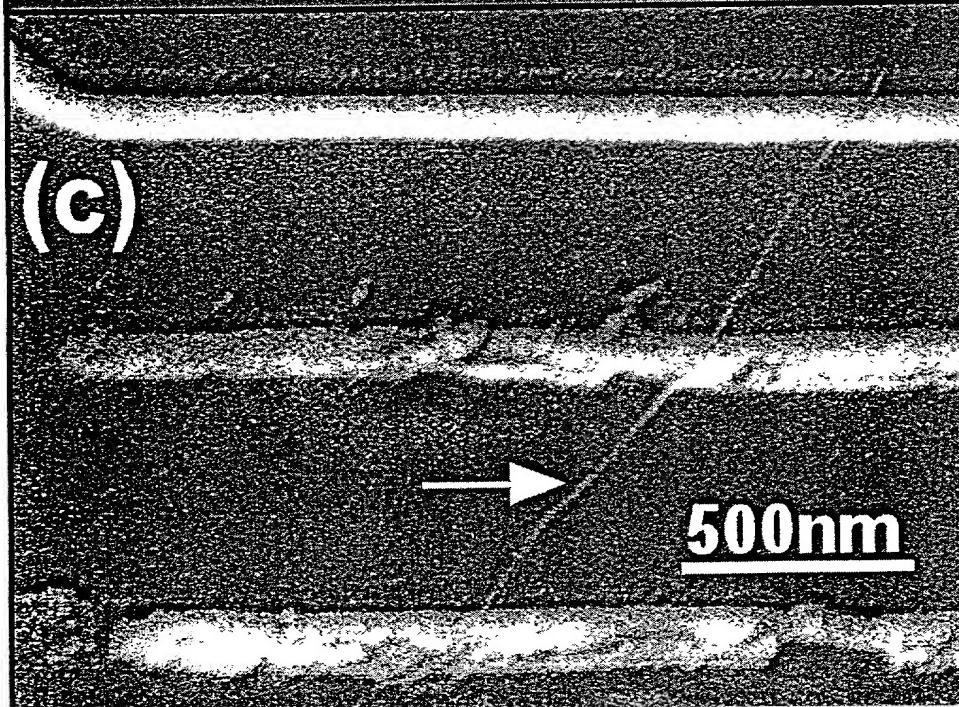
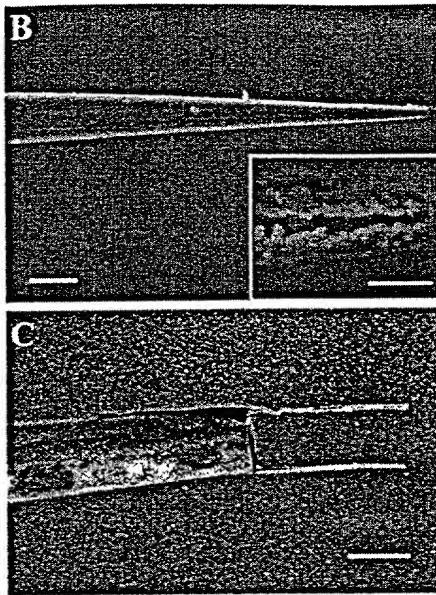
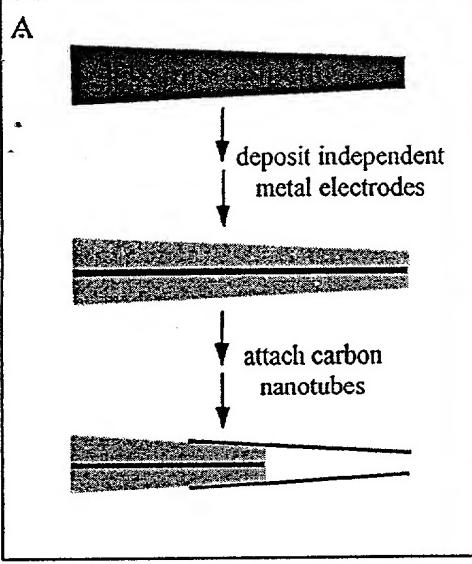


Figure 5



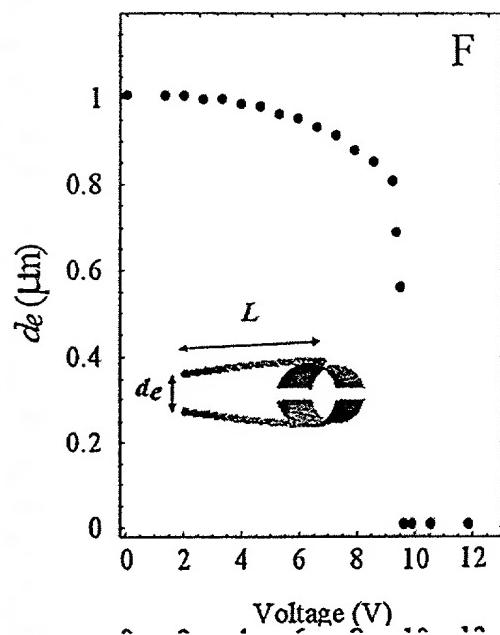
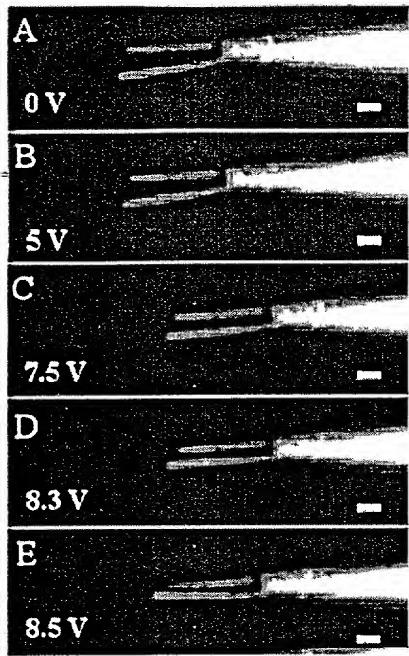
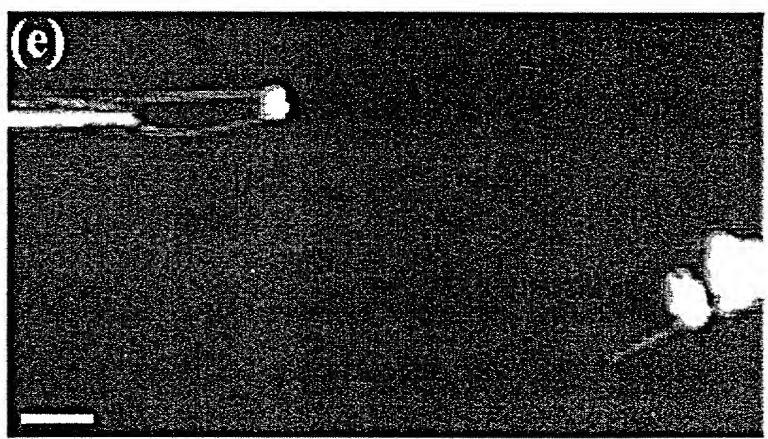
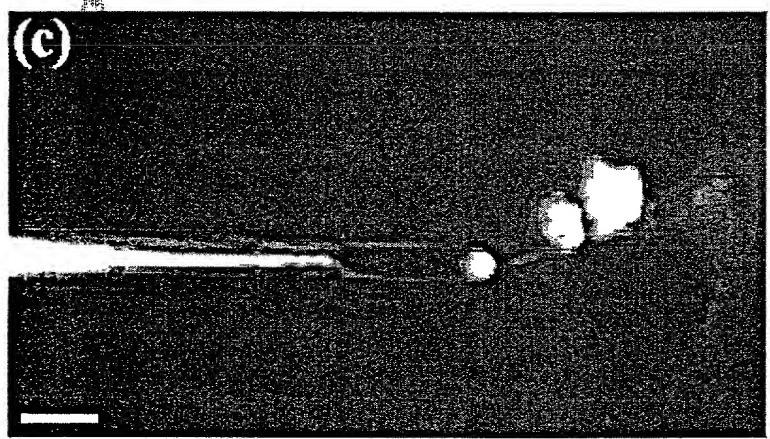
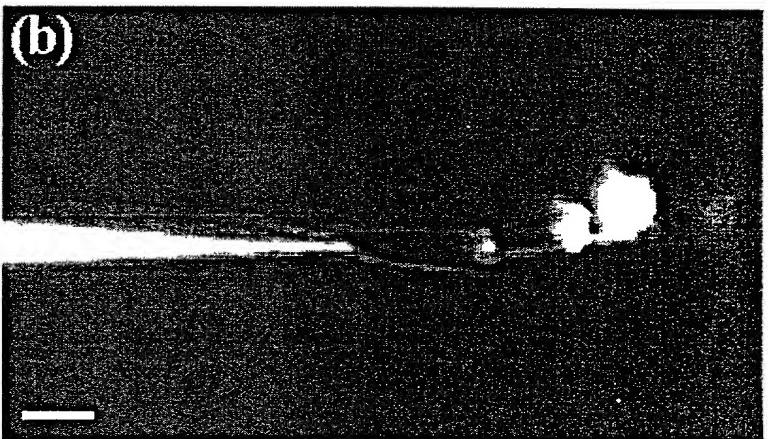
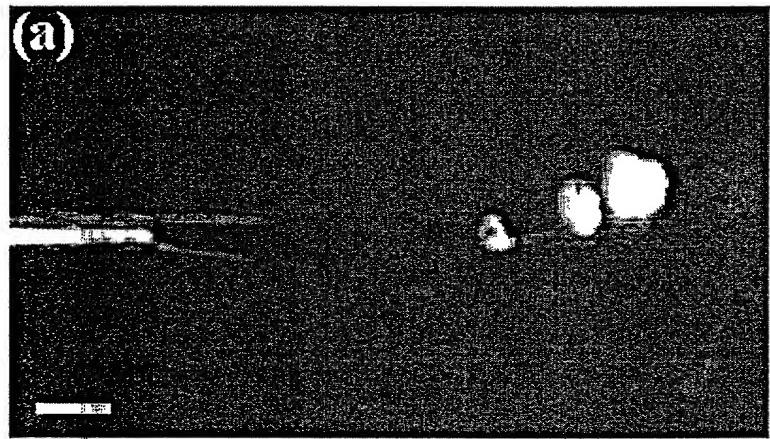


Figure 7

Figure 8



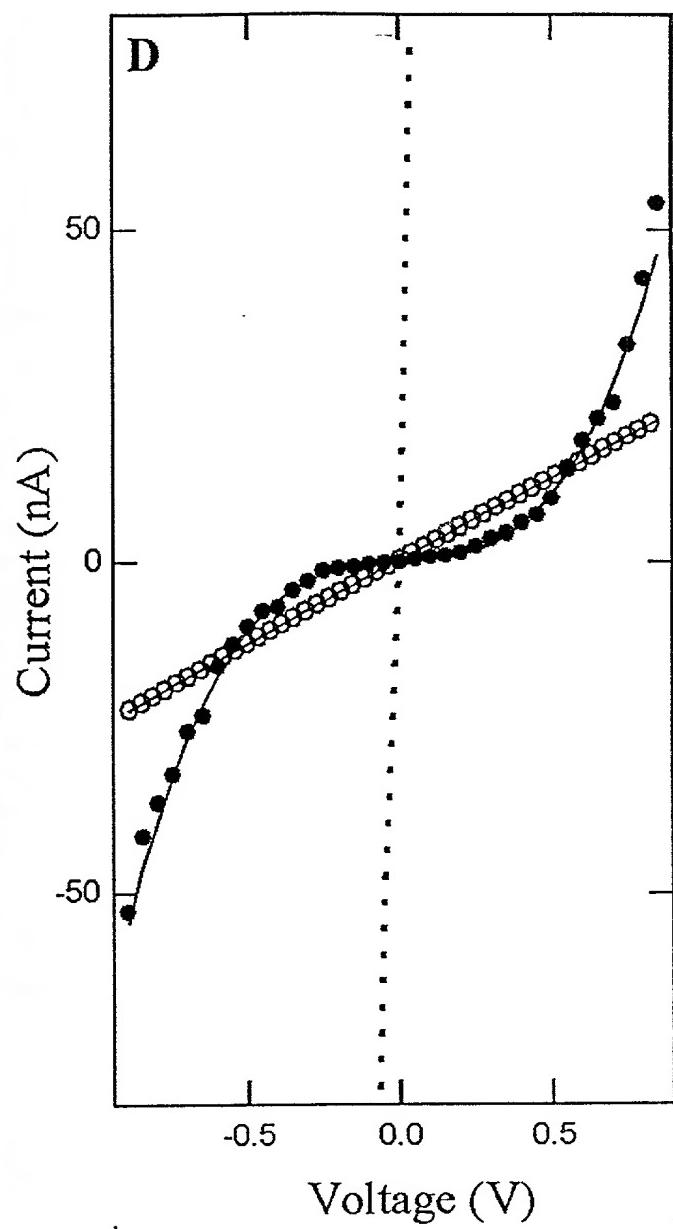
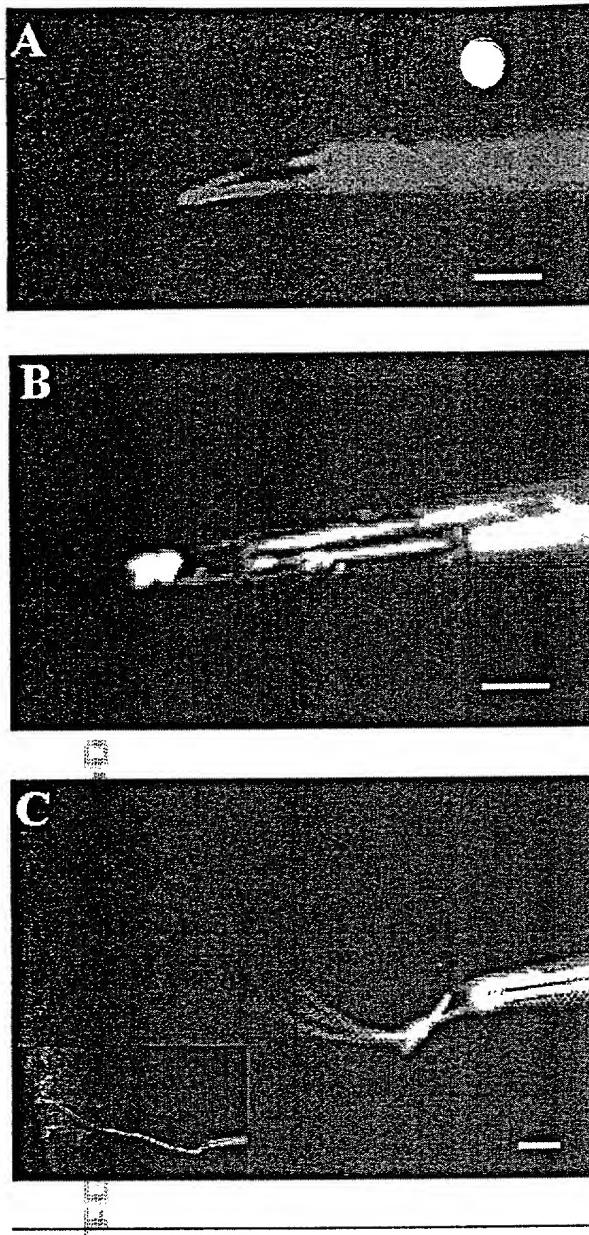
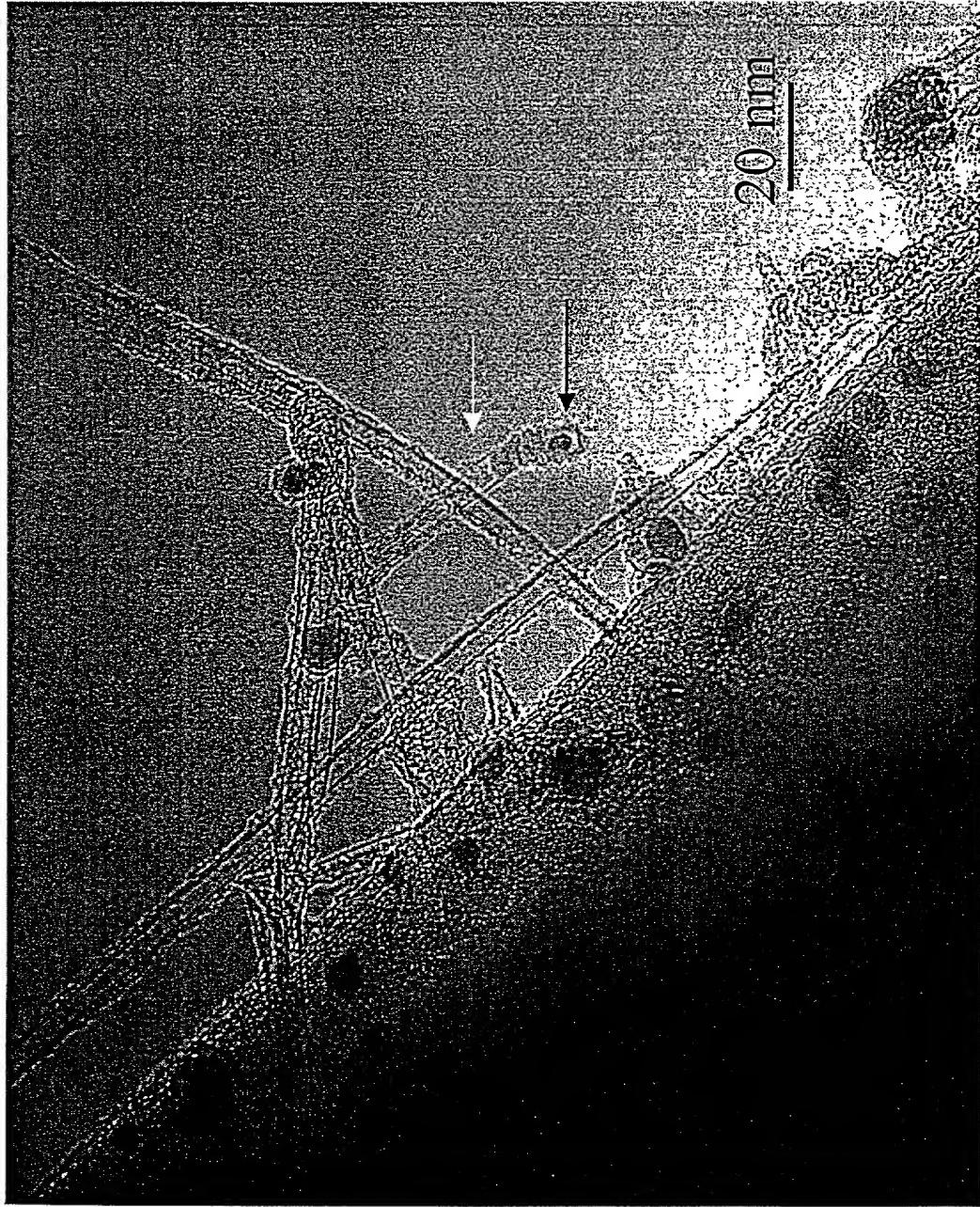


Figure 9

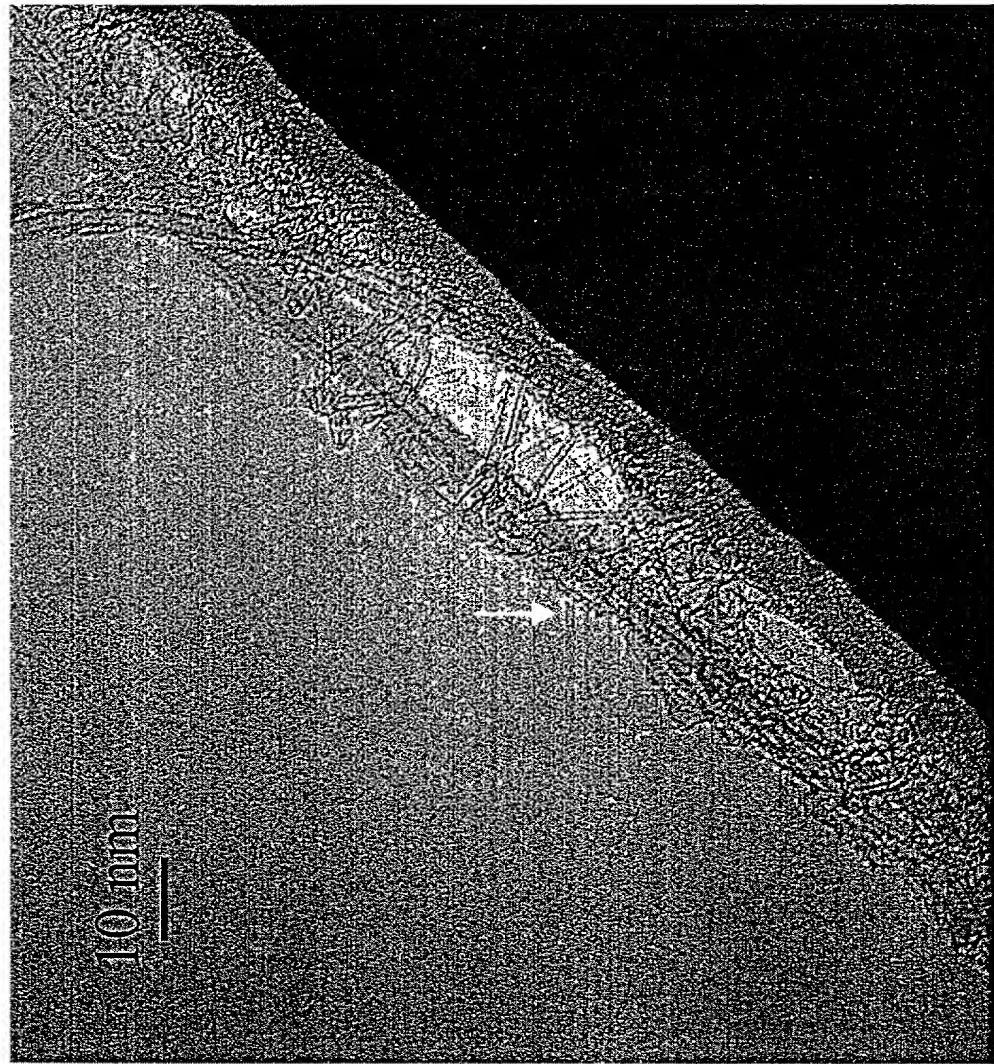
TEM picture of C_2H_4 CVD large tube synthesis
tube diameter c.a. 4nm



Catalyst: FeOx 6L (black arrow)
Carbon Source: C_2H_4 , SWNT (white arrow)

Majority of catalyst size: 4 - 6 nm
Majority of SWNT size: 4 nm

Fig. 10



Catalyst: FeOx 2L
Carbon source: CO
0.8 nm SWNT (white arrow)

Fig. 11

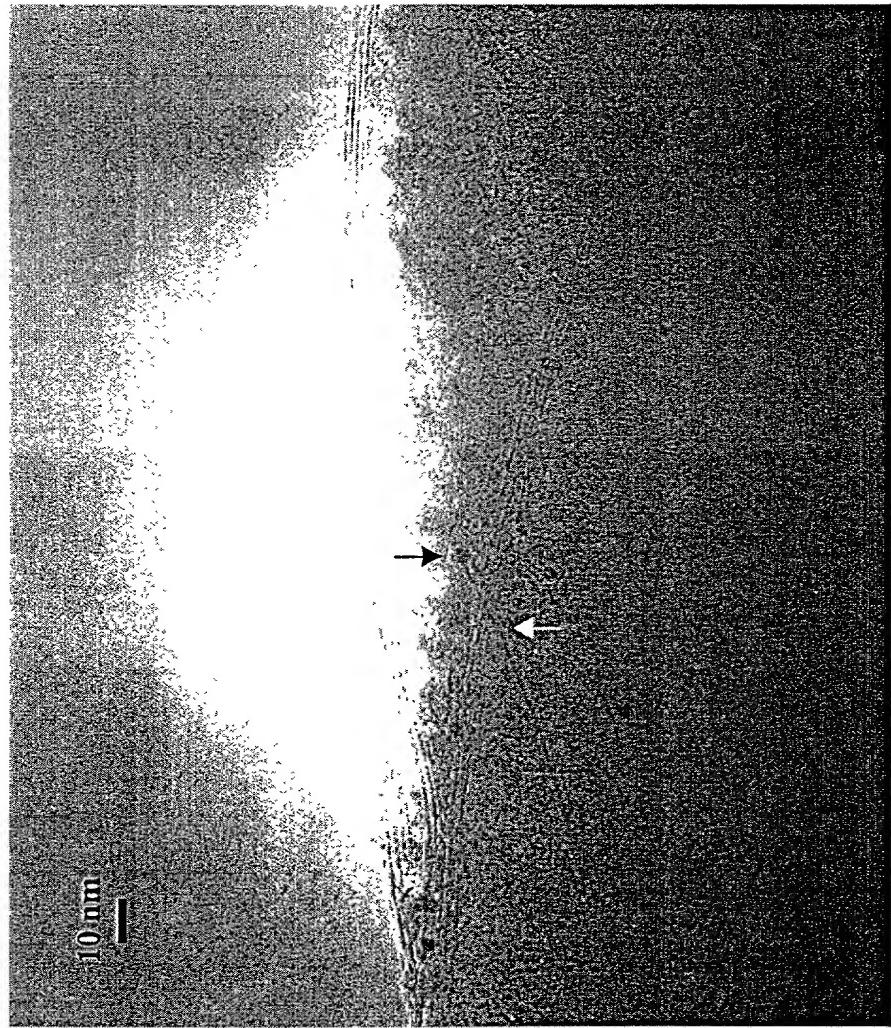
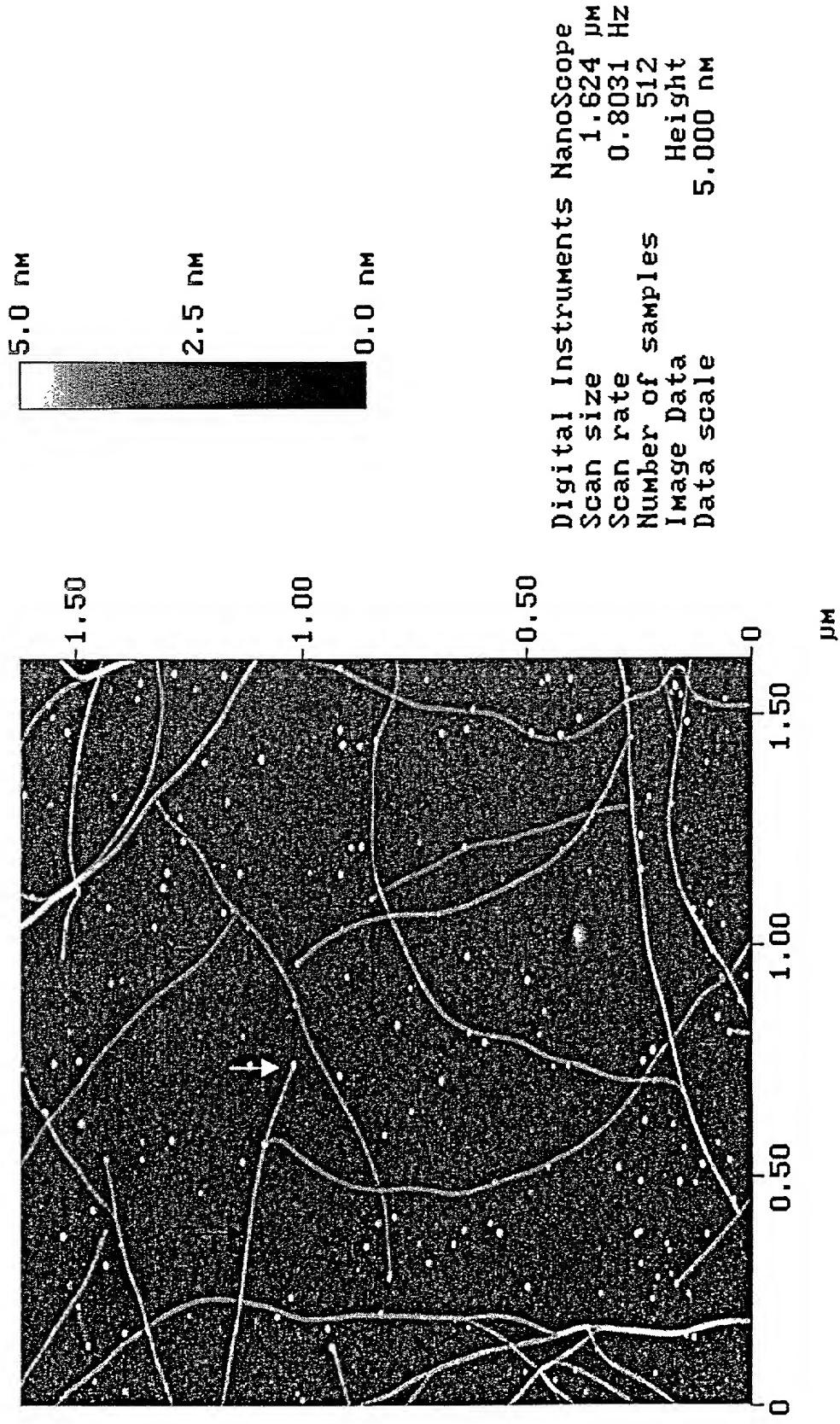


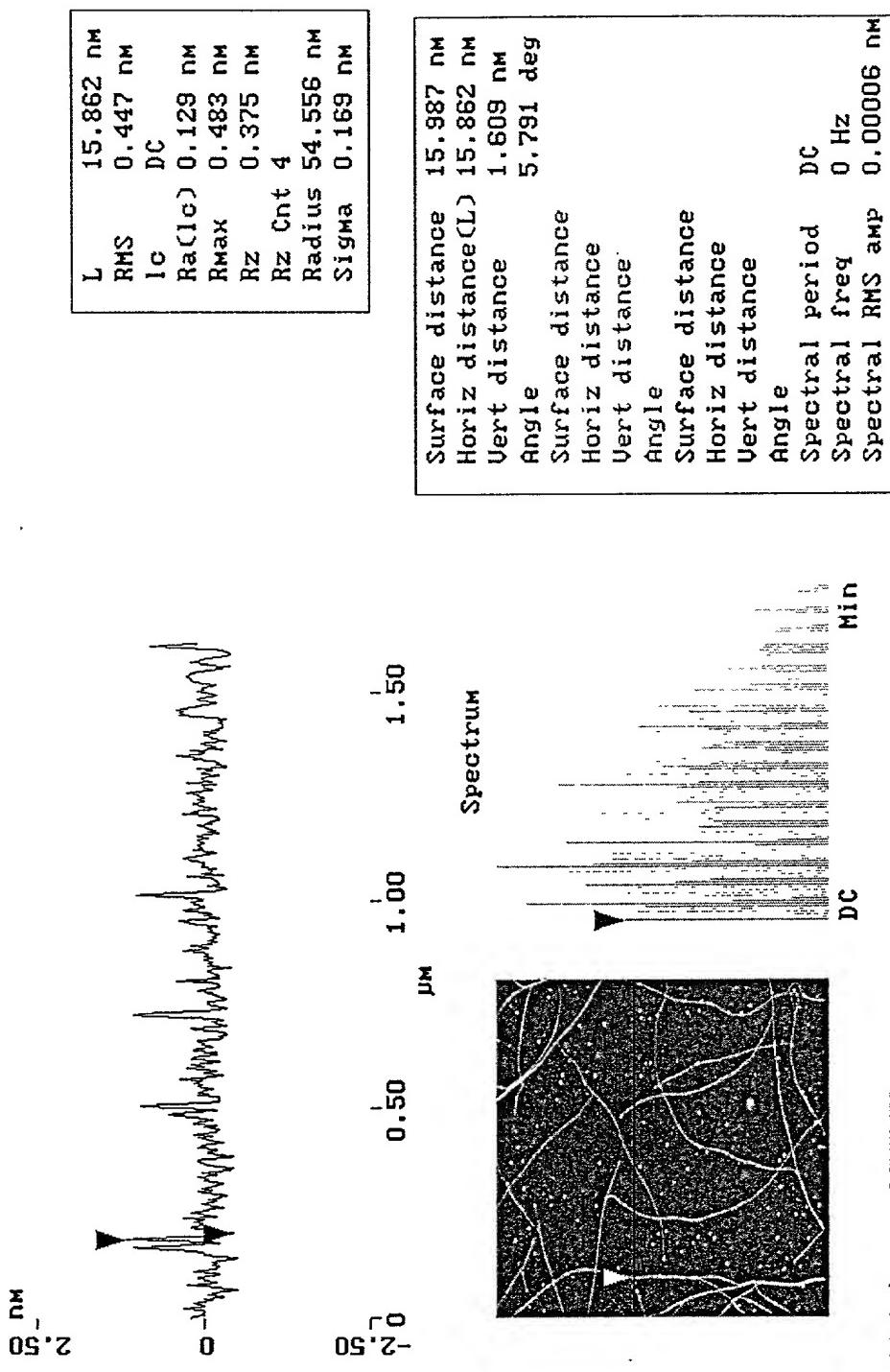
Fig. 12
Catalyst: FeOx 2L (black arrow)
Carbon source: CO , SWNT(white arrow)
Majority of catalyst size: 1.5 – 3.5 nm
Majority of nanotube size: 1.3 – 2.3 nm



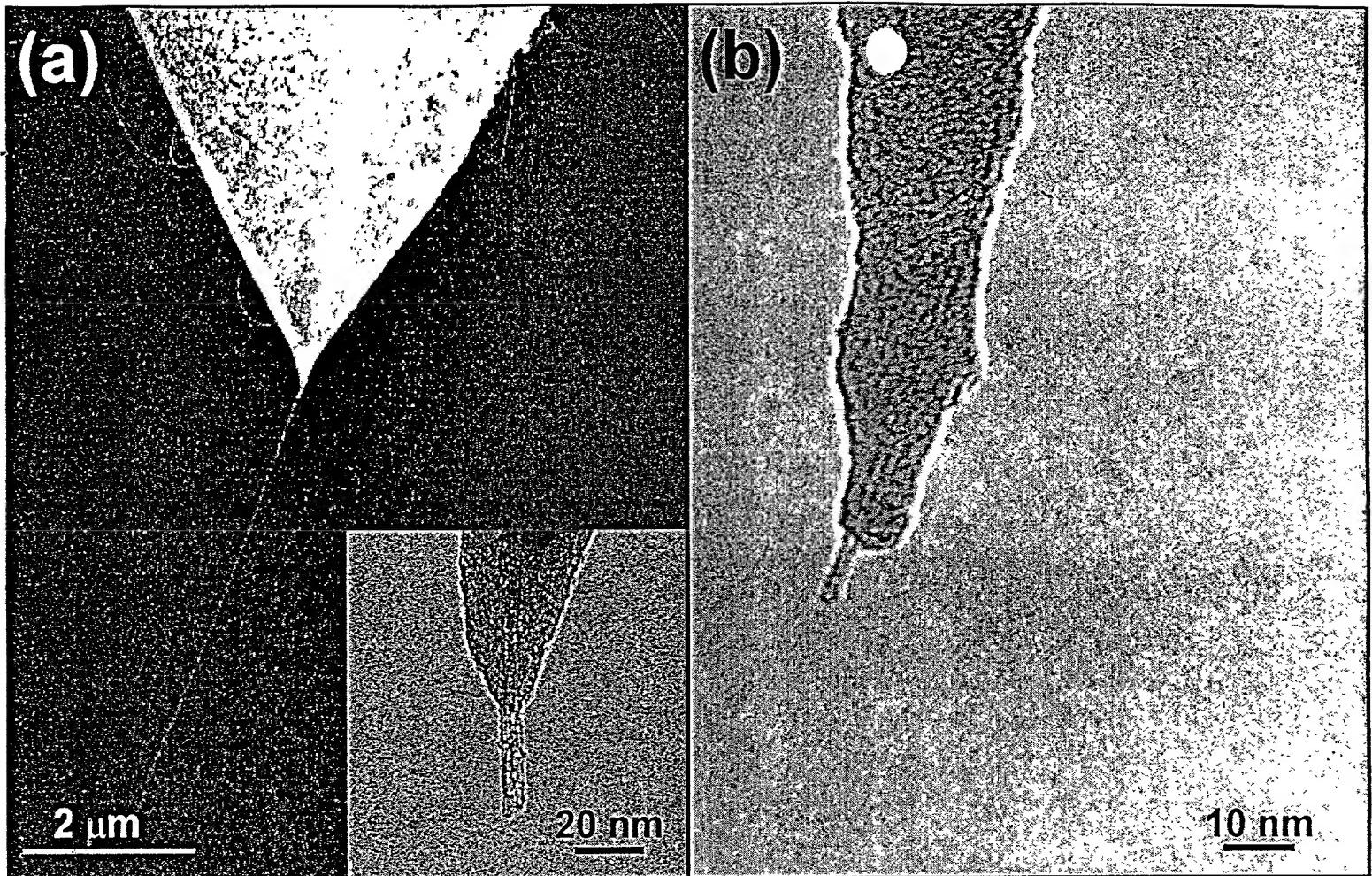
Catalyst: FeOx 6L (white arrow)
Carbon source: C₂H₄, SWNT (black arrow)

Fig. 13

Fig. 14



AFM picture of SWNT



Scanning electron microscopy

Figure 15